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Methods for preventing inhibition of nucleic acid synthesis by pyrophosphate are disclosed. More specifically, the present invention concerns inhibiting or preventing pyrophosphorolysis in sequencing and amplification of nucleic acid molecules. According to the present invention, an enzyme which is a pentosyltransferase, a phosphotransferase with an alcohol group as acceptor, a nucleotidyltransferase, or a carboxy-lyase is added to the reaction which serves to remove pyrophosphate from the reaction mixture.

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